

SEQUENCE LISTING

<110> Patel, Sonal

<120> SC6 FOR DIAGNOSIS OF HYPOXIA RELATED CONDITIONS

<130> 2543-1-036PCT/US

<140> PCT/GB2003/001443

<141> 2003-04-02

<150> GB 0207533.1

<151> 2002-04-02

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 619

<212> PRT

<213> Homo Sapiens

<400> 1

Met Ala Thr Lys Glu Lys Leu Gln Cys Leu Lys Asp Phe His Lys Asp
1 5 10 15

Met Val Lys Pro Ser Pro Gly Lys Ser Pro Gly Thr Arg Pro Glu Asp
20 25 30

Glu Ala Glu Gly Lys Pro Pro Gln Arg Glu Lys Trp Ser Ser Lys Ile
35 40 45

Asp Phe Val Leu Ser Val Ala Gly Gly Phe Val Gly Leu Gly Asn Val
50 55 60

Trp Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Ala Phe Leu
65 70 75 80

Ile Pro Tyr Phe Ile Phe Leu Phe Gly Ser Gly Leu Pro Val Phe Phe
85 90 95

Leu Glu Ile Ile Ile Gly Gln Tyr Thr Ser Glu Gly Gly Ile Thr Cys
100 105 110

Trp Glu Lys Ile Cys Pro Leu Phe Ser Gly Ile Gly Tyr Ala Ser Val
115 120 125

Val Ile Val Ser Leu Leu Asn Val Tyr Tyr Ile Val Ile Leu Ala Trp
130 135 140

Ala Thr Tyr Tyr Leu Phe Gln Ser Phe Gln Lys Glu Leu Pro Trp Ala
145 150 155 160

His Cys Asn His Ser Trp Asn Thr Pro His Cys Met Glu Asp Thr Met
165 170 175

Arg Lys Asn Lys Ser Val Trp Ile Thr Ile Ser Ser Thr Asn Phe Thr
180 185 190

Ser Pro Val Ile Glu Phe Trp Glu Arg Asn Val Leu Ser Leu Ser Pro
195 200 205

Gly Ile Asp His Pro Gly Ser Leu Lys Trp Asp Leu Ala Leu Cys Leu
210 215 220

Leu Leu Val Trp Leu Val Cys Phe Phe Cys Ile Cys Lys Gly Val Arg
225 230 235 240

Ser Thr Gly Lys Val Val Tyr Phe Thr Ala Thr Phe Pro Phe Ala Met
245 250 255

Leu Leu Val Leu Leu Val Arg Gly Leu Thr Leu Pro Gly Ala Gly Arg
260 265 270

Gly Ile Lys Phe Tyr Leu Tyr Pro Asp Ile Thr Arg Leu Glu Asp Pro
275 280 285

Gln Val Trp Ile Asp Ala Gly Thr Gln Ile Phe Phe Ser Tyr Ala Ile
290 295 300

Cys Leu Gly Ala Met Thr Ser Leu Gly Ser Tyr Asn Lys Tyr Lys Tyr
305 310 315 320

Asn Ser Tyr Arg Asp Cys Met Leu Leu Gly Cys Leu Asn Ser Gly Thr
325 330 335

Ser Phe Val Ser Gly Phe Ala Ile Phe Ser Ile Leu Gly Phe Met Ala
340 345 350

Gln Glu Gln Gly Val Asp Ile Ala Asp Val Ala Glu Ser Gly Pro Gly
355 360 365

Leu Ala Phe Ile Ala Tyr Pro Lys Ala Val Thr Met Met Pro Leu Pro
370 375 380

Thr Phe Trp Ser Ile Leu Phe Phe Ile Met Leu Leu Leu Gly Leu
385 390 395 400

Asp Ser Gln Phe Val Glu Val Glu Gly Gln Ile Thr Ser Leu Val Asp
405 410 415

Leu Tyr Pro Ser Phe Leu Arg Lys Gly Tyr Arg Arg Glu Ile Phe Ile
420 425 430

Ala Phe Val Cys Ser Ile Ser Tyr Leu Leu Gly Leu Thr Met Val Thr
435 440 445

Glu Gly Gly Met Tyr Val Phe Gln Leu Phe Asp Tyr Tyr Ala Ala Ser
450 455 460

Gly Val Cys Leu Leu Trp Val Ala Phe Phe Glu Cys Phe Val Ile Ala
465 470 475 480

Trp Ile Tyr Gly Gly Asp Asn Leu Tyr Asp Gly Ile Glu Asp Met Ile
485 490 495

Gly Tyr Arg Pro Gly Pro Trp Met Lys Tyr Ser Trp Val Ile Thr Pro
500 505 510

Val Leu Cys Val Gly Cys Phe Ile Phe Ser Leu Val Lys Tyr Val Pro
515 520 525

Leu Thr Tyr Asn Lys Thr Tyr Val Ser Pro Thr Trp Ala Ile Gly Leu
530 535 540

Gly Trp Ser Leu Ala Leu Ser Ser Met Leu Cys Val Pro Leu Val Ile
545 550 555 560

Val Ile Arg Leu Cys Gln Thr Glu Gly Pro Phe Leu Val Arg Val Lys
565 570 575

Tyr Leu Leu Thr Pro Arg Glu Pro Asn Arg Trp Ala Val Glu Arg Glu
580 585 590

Gly Ala Thr Pro Tyr Asn Ser Arg Thr Val Met Asn Gly Ala Leu Val
595 600 605

Lys Pro Thr His Ile Ile Val Glu Thr Met Met
610 615

<210> 2

<211> 3969

<212> DNA

<213> Homo Sapiens

<400> 2

gaattccgaa agcaaggaga tggccaccaa ggagaagctg cagtgtctga aagatttcca
60

caaggacatg gtgaagccct caccaggaa gagcccaggc acgcggcctg aggacgaggc
120

tgagggaaaa cctccgcaga gggagaagtg gtctagcaag atcgactttg tgctctctgt
180
ggctggcggc ttcgtggct tggcaacgt ctggcgcttc ccgtacacct gctacaagaa
240
tggtgaggt gcgttctca taccgtattt tattttcctg tttggagcg gcctgcctgt
300
gttttcttg gagatcatca taggccagta cacctctgaa gggggcatca cctgctggga
360
aaagatctgc cccttgttct ctggtatcg ctatgcctcc gttgttaattg tgtccctcct
420
gaatgtctac tacatcgta tcctggcctg ggccacatac tacctgttcc agtccttcca
480
gaaggagctg ccctggcac actgcaacca cagctggaac acacctact gcatggagga
540
caccatgcgc aagaacaaga gtgtctggat caccatcagc tccaccaact tcacccccc
600
tgtcatcgag ttctggagc gcaacgtgct gagcttgcct cctggaatcg accacccagg
660
ctctctgaaa tggcacctcg ctctctgcct tcttttagtc tggctagtgt gtttcttctg
720
catctgcaag gggttcaggt ccactggaa gggtcgctac ttcacagcca ctttccatt
780
cgccatgctc ctggtgctgc tggccgagg gctgacgctg ccggcgccgg gccgaggcat
840
caagttctat ctgtatcctg acatcacccg cttgaggac ccacaggtgt ggattgacgc
900
tgggactcag atattcttct cttatgccat ctgcctgggg gctatgaccc cgctggggag
960
ctacaacaag tacaagtata actcgtagag ggactgtatg ctgctggat gcctgaacag
1020
tggtaccagt tttgtgtctg gcttcgcaat ttttccatc ctgggcttca tggcacaaga
1080

gcaagggtg gacattgctg atgtggctga gtcaggtcct ggctggcct tcattgccta
1140

ccaaaagct gtgacaatga tgccgctgcc cacatttgg tccattctt ttttattat
1200

gcttccttg cttggactgg atagccagtt tgttgaagtt gaaggacaga tcacatcctt
1260

ggttgatctt taccatcct tcctaaggaa gggttatcgt cggaaatct tcatgcctt
1320

cgtgtgtac atcagctacc tgctgggct gacgatggtg acggagggtg gcatgtatgt
1380

gttcagctc tttgactact atgcagctag cggtgtatgc ctttgggg ttgcattctt
1440

tgaatgtttt gttattgcct ggatatatgg aggtgataac ctttatgatg gtattgagga
1500

catgattggc tatcgccccg ggccctggat gaagtacagc tgggtgatca ctccagttct
1560

ctgtgttggc tgttcatct tctcgctcgt caagtacgta cccctgaccc acaacaaaac
1620

atacggtcc ccaacttggg ccattggct gggctggagc ctggcccttt cctccatgct
1680

ctgcgttccc ttggtcatcg tcatccgcct ctgccagact gagggggcgt tccttgag
1740

agtcaagtac ctgctgaccc caagggaaacc caaccgctgg gctgtggagc gcgagggagc
1800

cacacccat aactctcgca ccgtcatgaa cggcgctcgt gtgaaaccga cccacatcat
1860

tgtggagacc atgatgtgag ctctctcggg tcgacggggc cggcggttt cctgctgttt
1920

actaacatta gattcacata ggaccagggtt tacagagctt tatatttgca ctaggatttt
1980

tttttttttg taattgtcac agaaaatgta attgtggta tgtgtgcgtg cgtgtgtgt
2040

tgtgtgtgtg tgtatcgtgt gtgtgtgtt tttttgatt tggggatat tttgtacaaa
2100

aagaaaaccc acggaagat gtccgtggag aggcagagct ttcatactga attagatgt
2160

tttatggga atttggtaaa ttttctttg tattttttt tttacatata agtataatata
2220

cacttagaga ttgtcatata ctttaccac ttgaattgat cttttgcca gcaatagatc
2280

tcatttcaa aagcaattct tcggtgctgt gtagctggca gaaagttctg tccagtaaac
2340

gcaggatgga atttcctgg gactctacac ccatcttaag gtggataacc ttccaaatcc
2400

tggtcagat ggaagaaata gcaggagaga ggaccatta gctggcagac ccagggaaag
2460

aaaggagggc tgtgaggaga tacctcatta aacttggctt agtgaagaag agagatgcca
2520

aaggaatgaa ccaacccttc acataaagga gactggctga agctgaatga ggaggcccta
2580

tagcagaagt ctgattctaa gagcagtaga aacttgtacc agaagcaaaa tcccacttt
2640

aattttgaga tggtgagtgg atagtcagta gaccgtcaga accactggcc agagagggag
2700

ctgctagaga tccaagaagg ctggcaggaa tgaggctcac aactcagcct cgcaagaggt
2760

ggcagaggca caggaggcca cagtccttcc tggggcattc caggcagaga aggagcagag
2820

gctctccgg caggagctgg ggtctcaggg ctcagatgag tctgttgcattt tggatgggg
2880

tcatagcagg ttctggcat tccccaaagca acatctcagc atctcttaaa gttgcctgca
2940

ggaatgaagc atgacatacc ttttgaggaa ctagggagt ggtggggagg tgagtggacc
3000

aaaggatata ggccccaggc atgcagatgg gcccggtgcc ggggaggggt gctttcttc
3060

ctcatctccc cactccccac tctcagcctg ggagactcct gccaagccct cattaaagat
3120

gccaccctgg gctgccctgg cacctagcaa ggcacaccaa gaacagctt tgagtcgtat
3180

cctccactgg ggaagtgctc ccagttcaga acaagggcag cccgtggtgc tgacctagga
3240

tataacaaag ctcttcactt caaaaccct gcaatagctg gttttacaga catttaccac
3300

ctggggaccc aaaagagaag gcctaggaga gttttctaga aggttggat tgtcagggtc
3360

ctggccccc agaactggct tgatcaaggg ctttatgtgg agcagagggtt gtctctgaac
3420

caggagagaa ggtactatac ctttcaaatac cccagggcag acacacccccc acccagccccc
3480

tatttggacc taaactgtgc catttgaaca gtcacttcca agtcagtct aatgaaacc
3540

gaaacgtgac cacgcacaaa ggcagtcact gctcgagggg tgcagaccgc agaattttca
3600

cagcaggggc tcttggaaact ctggaaaccc ctttcttaaa tttgggagga ggagtatgcc
3660

tttgggtgtcc ccctcccaag ggcaattctg aaccccatct ttggcaggca tacatatttc
3720

actgtttcca aagctatcta ctctgccaaa caacacccag tcctatttcca aactctcaac
3780

gattctatct tgttcctgtt tttctatgtt tttatggtttgc cggtttgtgt ctgatttgat
3840

tttactgttt tttccctgtat tttatggagt agcattgtga cctgttttcc tttgtcttat
3900

ataactttag taaactaacc actgtcaatg attgagggca ggtggcacgt gggaaagagg
3960

gcggattc
3969

<210> 3
<211> 22
<212> DNA
<213> Homo Sapiens

<400> 3
atcggtatg cctccgttgt aa
22

<210> 4
<211> 22
<212> DNA
<213> Homo Sapiens

<400> 4
agttggtgga gctgatggtg at
22